10/523890

### PATENT COOPERATION TREATY

## **PCT**

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

RECEIVED

0 2 SEP 2004

				MUDO DOT
	t's or agent's file reference	FOD FURSING	0	WIPO PCT
cal 851		FOR FURTHER ACTION	r reminiary Exa	of Transmittal of International mination Report (Form PCT/IPEA/416)
International application No. PCT/IB 02/03113		International filing date (day/mo	onth/year)	Priority date (day/month/year) 08.08.2002
Internatio	nal Patent Classification (IPC) or	both national classification and IPC	<u> </u>	
H04Q3,	00	s seemed and it did it	•	
İ				
Applicant				
	OLUX HOLDING S.A. et a	J.		
1. Thi	s international proliminant			
Au	thority and is transmitted to th	amination report has been prepare ae applicant according to Article	ared by this Intern	ational Preliminary Examining
		The second of th	<b>50.</b>	
2. Thi	e REPORT consists of a total			
	STILL OF CONSISTS OF A TOTAL	of 4 sheets, including this cover	er sheet.	
×	This report is also accompa	anied by ANNEXES i.e. sheets	of the description	, claims and/or drawings which have
	been amended and are the	basis for this report and/or she	ets containing rec	claims and/or drawings which have tifications made before this Authority
The			ructions under the	PCT).
1116	ese annexes consist of a total	of 2 sheets.		
3. This	report contains indications re	elating to the following items:		
1		realing to the following items:		
II	<ul><li>☑ Basis of the opinion</li><li>☐ Priority</li></ul>			
10	· · · · · · · · · · · · · · · · · ·	Onlinion with an area.		
١٧	☐ Lack of unity of invent	opinion with regard to novelty, i	nventive step and	industrial applicability
V	☒ Reasoned statement :	under Rule 66 2/aVii\ with		
1.71			d to novelty, inver	ntive step or industrial applicability;
VI	Certain documents cit			
VII VIII	Certain defects in the	international application		•
VIII	☐ Certain observations of	on the international application		
Date of sub	mission of the demand			
Dale OI SUD	mission of the demand	Date of	completion of this re	eport
01.03.20	04			
	<del>.</del> .	03.09.	2004	
Name and r	nailing address of the internation	al Authoria	ed Officer	
————	examining authority:  European Patent Office - P.B.	710010112	.og Olliger	tiches Pelenton,
	19L-6400 DV HIISWIK - Pave Re	ae I	ese. C	
Tel. +31 70 340 - 2040 Tx: 31 651 epo nl Fax: +31 70 340 - 3016			ne No. +31 70 340-4	
		( 1 5 16 10 10	NO NO. 431 /N 9// /	19/10

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/IB 02/03113

l. Basis	of the	report
----------	--------	--------

 With regard to the elements of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

ı	Description, Pages	
•	1-19	as originally filed
(	Claims, Numbers	
1	1-5	received on 06.08.2004 with letter of 06.08.2004
C	Orawings, Sheets	
1	/4-4/4	as originally filed
2. V la	Vith regard to the <b>lan</b> q anguage in which the	guage, all the elements marked above were available or furnished to this Authority in the international application was filed, unless otherwise indicated under this item.
T	hese elements were a	available or furnished to this Authority in the falls.
	l the language of a	translation furnished for the purposes of the international search (under Rule 23.1(b)).
	O 13 - 1 Pu	ionation of the international application (under Dule 49 o/L)
	the language of a t Rule 55.2 and/or 5	translation furnished for the purposes of international preliminary examination (under 5.3).
3. W in	ith regard to any nue	leotide and/or amino acid sequence disclosed in the international application, the yexamination was carried out on the basis of the sequence listing:
	contained in the int	ernational application in written form.
	filed together with t	he international application in computer readable form
	rumsnea subseque	ently to this Authority in written form.
	furnished subseque	ently to this Authority in computer readable form
	in the international	the subsequently furnished written sequence listing does not go beyond the disclosure
	The statement that listing has been furn	the information recorded in computer readable form is identical to the written sequence
4. Th		resulted in the cancellation of:
	the description,	pages:
	the claims,	Nos.:
	the drawings,	sheets:

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/IB 02/03113

5. 🗆	This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)).
	(Any replacement sheet containing and

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

- 6. Additional observations, if necessary:
- V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- 1. Statement

Novelty (N)

Yes: Claims
No: Claims
Inventive step (IS)

Yes: Claims
No: Claims
1-5
No: Claims
Industrial applicability (IA)

Yes: Claims
1-5

No: Claims

2. Citations and explanations

see separate sheet

### Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

The invention discloses a telecommunication network (claim 1) being provided for delivering signals and data between a plurality of local accesses, said local accesses including local users, and a plurality of network accesses through local exchanges. The local exchanges include a multi-protocol gateway device and a local routing device. The local accesses are connected through first linking means to local centralising devices, which are in turn connected to the local exchanges through second linking means. The local exchanges are connected through third linking means to the network accesses.

Such a system is disclosed in the closest prior art D1=EP-A-1 117 214 (TERAYON COMM SYSTEMS INC) 18 July 2001 (2001-07-18)

The differences between the document D1 and the invention is the following: the second and third linking means are constituted by bidirectional satellite radio bridges.

The problem solved by such technical features is that in conventional telecommunications systems, the traffic is collected by means of physical connections.

The present solution consists of providing a bidirectional satellite radio bridge between the local user and the first local exchange as well as between the local exchange and the network access. This solution allows to use only one type of connection of the bidirectional satellite type, while only the connection between the local user and the centralising devices (i.e. Multiplexer/Demultiplexer) is not of the radio type.

Therefore, the subject-matter of claims 1-5 is new and inventive.

5

10

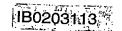
15

20

25

#### CLAIMS

Telecommunications and telephony network (AT) for controlling mobile (TC) or fixed peripheral devices at a customer premises, of the type comprising at least one local area network, at least one local residents' network (RLC), at least one regional network, at least one national network and a central network, said telecommunications and telephony network (AT) being provided for delivering signals and data between a plurality of local accesses (AL, AL1), including local users (UL), and a plurality of networks accesses (AG), through local exchanges (CL, CR), each of said local exchanges (CL, CR) including a multiprotocol gateway device (GV) for video and audio signals and data compression and conversion into IP packets bearing IP telephony data flow or data flow from the Internet and a local routing device (R) for routing said IP telephony data flow or data flow from the Internet, wherein said local users (UL) of each local access (AL, AL1) are connected to local centralising devices (MD) through first linking means (CO) for flowing data and signals, and said centralising devices (MD) are in turn connected to said local exchanges (CL, CR) through second linking means (C1, flowing data and signals, while said exchanges (CL, CR) are connected to said networks accesses (AG) through third linking means (C2, C41) for flowing data



and signals, characterised in that at least said second (C1, C4) and said third linking means (C2, C41) are constituted by bidirectional satellite radio bridges (RLD, ST).

- 5 2. Telecommunications and telephony network (AT) as claimed in claim 1, characterised in that said first linking means (CO) are constituted by physical cables, such as telephone twisted pairs or optical fibers.
- 3. Telecommunications and telephony network (AT) as claimed in claim 1, characterised in that said local routing devices (R) are connected to satellite routing devices (RS) or to radio bridges (PR), said radio bridges (PR) being able to provide connection between local residents' networks (RLC).
- 15 4. Telecommunications and telephony network (AT) as claimed in claim 1, characterised in that each national network is connected to the relative regional network by means of a digital geostationary satellite network.
- 5. Telecommunications and telephony network (AT) as claimed in claim 1, characterised in that each regional network is connected to the relative local residents' network (RLC) by means of a digital bidirectional satellite radio transmission or by means of communication via optical fibres.